

To request a Time Extension (TE) or Alternative Diversion Requirement (ADR), please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board  
Office of Local Assistance, (MS 25)  
1001 I Street  
PO Box 4025  
Sacramento CA 95812-4025

FILE COPY

### General Instructions:

For a Time Extension complete Sections I, II, III-A, IV-A, and V.

For an Alternative Diversion Requirement complete Sections I, II, III-B, IV-B and V.

### Section I: Jurisdiction Information and Certification

*All respondents must complete this section.*

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name City of Dana Point		County County of Orange	
Authorized Signature <i>Cindy Asher</i>		Title Administrative Manager	
Type/Print Name of Person Signing Cindy Asher	Date 1/30/02	Phone (949) 248-3571	
Person Completing This Form (please print or type) Same		Title Same	
Phone (949)248-3571	E-mail Address cashier@danapoint.org	Fax (949)248-7372	
Mailing Address 33282 Golden Lantern	City Dana Point	State CA	ZIP Code 92629

August 20-21, 2002

This cover sheet is to be completed for each Time Extension (TE) or Alternative Diversion Requirement (ADR) requested.

**1. Eligibility**

Has your jurisdiction filed its Source Reduction and Recycling Element, Household Hazardous Waste Element, and Nondisposal Facility Element with the Board (must have been filed by July 1, 1998 if you are requesting an ADR)?

☐ No If no, stop: not eligible for a TE or ADR.

☒ Yes. If yes, then eligible for a TE or ADR.

**2. Specific Request and Length of Request**

Please specify the request desired.

☒ **Time Extension Request**

Specific years requested 2001, 2002, 2003

Is this a second request? ☒ No ☐ Yes Specific years requested                       
(Note: Requests for an additional extension will need to address why the jurisdiction's efforts to meet the 50% goal by the end of the first extension were not successful.)

☐ **Alternative Diversion Requirement Request (Not allowed for Regional Agencies).**

Specific ADR requested                     %, for the years                     

Is this a second ADR request? ☐ No ☐ Yes Specific ADR requested                     %, for the years                     

(Note: Requests for an additional ADR will need to address why the jurisdiction's efforts to meet 50% by the end of the first ADR period were not successful.)

**Note:** Extensions may be requested anytime by a jurisdiction, but will only be effective in the years from January 1, 2000 to January 1, 2006. An original request for a TE/ADR may be granted for any period up to three years and subsequent requests for TE/ADR may extend the original request or be based on new circumstances but the total number of years for all requests cannot total more than five years or extend beyond January 1, 2006.

### Section IIIA—TIME EXTENSION

Within this section, discuss your jurisdiction's progress in implementing diversion programs that were planned to achieve 50%. Provide any additional information that demonstrates "good faith effort." The CIWMB shall determine your jurisdiction's progress in demonstrating "good faith effort" towards complying with AB 939. Note: The answers to each question should be comprehensive and provide specific details regarding the jurisdiction's situation.

*Attach additional sheets if necessary—please reference each response to the appropriate cell number (e.g., IIIA-1).*

1. Why does your jurisdiction need more time to meet the 50% goal? Describe why SRRE selected programs did not achieve 50% diversion. Identify barriers to meeting the 50% goal and briefly indicate how they will be overcome.

See attached sheets.

2. Why does your jurisdiction need the amount of time requested? Describe any relevant circumstances in the jurisdiction that contribute to the need for a Time Extension.

See attached sheets.

3. Describe your jurisdiction's Good Faith Efforts to implement the programs in its SRRE.

See attached sheets.

4. Provide any additional relevant information that supports the request.

See attached sheets.

**Section IIIB—ALTERNATIVE DIVERSION REQUIREMENT**

Within this section, discuss your jurisdiction's progress in implementing diversion programs that were planned to achieve 50%. Provide any additional information that demonstrates "good faith effort." The CIWMB shall determine your jurisdiction's efforts in demonstrating "good faith effort" towards complying with AB 939. Note: The answers to each question should be comprehensive and provide specific details regarding the jurisdiction's situation.

*Attach additional sheets if necessary—please reference each response to the appropriate cell number (e.g., IIIB-1.).*

**1. Why does your jurisdiction need and Alternative Diversion Requirement? Describe why SRRE selected programs did not achieve 50% diversion. Identify barriers to meeting the 50% goal and briefly indicate how they will be overcome.**

N/A

**2. Why is your jurisdiction requesting an Alternative Diversion Requirement in lieu of a Time Extension?**

**3. Describe your jurisdiction's Good Faith Efforts to implement the programs in its SRRE.**

**4. Describe any relevant circumstances in the jurisdiction that contribute to the need for an ADR. Provide any relevant information that supports the request.**

## Section IV A—PLAN OF CORRECTION

A Plan of Correction is required by PRC Section 41820(a)(6)(B). The plan is fundamentally a description of the actions the jurisdiction will take to meet the 50% goal by the expiration of the Time Extension.

Attach additional sheets if necessary.

Residential %		43	Non-residential %		57
PROGRAM TYPE	NEW or EXPAND	DESCRIPTION OF PROGRAM	FUNDING SOURCE	DATE FULLY COMPLETED	ESTIMATED PERCENT DIVERSION
Please use the Board's Program Types. The Program Glossary is online at: <a href="http://www.ciwmb.ca.gov/LGCentral/PARIS/Codes/Reduce.htm">www.ciwmb.ca.gov/LGCentral/PARIS/Codes/Reduce.htm</a>					
2030-RC-OSP	Expand	Expand collection of cardboard & other fiber with frontloader routes; increase glass/CRV collection; divert fiber from compactor accounts (hotels) See attached sheet for detailed breakdown of annual diversion.	Refuse Rates	December 31, 2003	7%
4060-SP-CAR and 3030-CM-CSG	Expand	Work with County and other cities to site a C&D and green waste sorting facility at the Prima Desecha Landfill.	Tip fees or other mechanism	December 31, 2003	5%
7000-FR-MRF	Expand	\$1 million in new equipment was added to the commingled sort line at the CR&R Stanton facility in late 2001. This new equipment combined with efforts to reduce contamination at the source will decrease the residual from the commingled sort line.	Refuse Rates	December 31, 2003	2%
Total Estimated Diversion Percent From New and/or Expanded Programs					14%
Current Diversion Rate Percent From Latest Annual Report					36% for 2000
Total Planned Diversion Percent Estimated					50%

## PROGRAMS SUPPORTING DIVERSION ACTIVITIES

PROGRAM TYPE	NEW or EXPANDED	DESCRIPTION OF PROGRAM	DATE FULLY COMPLETED
6020-PI-ORD	New	Once the C&D and green waste sorting facility is established the City will enact a requirement that weight slips from C&D recycling be submitted before a Certificate of Occupancy is issued on new construction and significant remodels.	December 31, 2003

5010-ED-PRN and 5020-ED-OUT	Expand	Public Education materials will be prepared and distributed to increase participation in residential and commercial recycling programs and to inform self-haulers of availability of C&D and green waste diversion opportunities. City & hauler staff will speak at community functions to encourage participation in programs.	December 31, 2003

**Section IV B—GOAL ACHIEVEMENT**

**Goal Achievement describes the activities the jurisdiction will use to achieve the ADR.**  
*Attach additional sheets if necessary.*

Residential %			Non-residential %		
PROGRAM TYPE	NEW or EXPAND	DESCRIPTION OF PROGRAM	FUNDING SOURCE	DATE FULLY COMPLETED	ESTIMATED PERCENT DIVERSION
Please use the Board's Program Types. The Program Glossary is online at: <a href="http://www.ciwmmb.ca.gov/LG/Central/PARIS/Codes/Reduce.htm">www.ciwmmb.ca.gov/LG/Central/PARIS/Codes/Reduce.htm</a>					
		Total Estimated Diversion Percent From New and/or Expanded Programs			
		Current Diversion Rate Percent From Latest Annual Report			
		Total Planned Diversion Percent Estimated			

**PROGRAMS SUPPORTING DIVERSION ACTIVITIES**

PROGRAM TYPE	NEW or EXPAND	DESCRIPTION OF PROGRAM	DATE FULLY COMPLETED

**Section V – PARIS**

Office of Local Assistance staff will be reviewing your Jurisdiction's Planning Annual Report Information System (PARIS) database printout as part of the evaluation of your request. Should the Jurisdiction have updates or revisions to the program implementation from the latest Annual Report submitted to the Board, please attach to the application the Jurisdiction's PARIS database printout showing updates or revisions.

*Contact your Office of Local Assistance Representative at (916) 341-6199 for a copy of PARIS, or go to the Board's website at [www.ciwmb.ca.gov/LGCentral/PARIS/](http://www.ciwmb.ca.gov/LGCentral/PARIS/).*



## Attachment for Section III A

### Section IIIA-1:

#### Why does your jurisdiction need more time to meet the 50% goal?

The City of Dana Point is requesting an SB 1066 time extension to December 31, 2003. This time extension is needed to address diversion shortfalls attributable to the following barriers and circumstances:

1. Sale of the City's franchised hauler to a new company stalled implementation of the commercial recycling program in 1999 and 2000.
2. The absence of a C/D recycling facility in South Orange County created an institutional barrier to diversion of C/D waste.
3. A significant increase in commercial waste generation during the summer boating and beach tourist season makes implementation of commercial recycling programs more difficult due to the high turnover in restaurant, hotel and retail shop employees. (Extra employees are hired just for the summer season and are not trained in use of the recycling programs.)

A more detailed description of each of the above issues follows.

#### Impact of Sale of Franchisee on Commercial Recycling

Between 1997 and 2000 the City's former franchisee, Solag, was entertaining various offers for purchase of the company. The pending sale of Solag created an institutional barrier to increasing commercial recycling. Solag management deferred work on commercial recycling program implementation in order to reduce costs, increase revenues and position the company for sale at the highest price. The City had two options: (1) to initiate franchise enforcement measures with a company that was leaving the business, or (2) wait until the sale was complete and begin anew with the new franchise holder. The City felt option 2 would achieve AB 939 compliance faster and more effectively than option 1.

The City approved the franchise assignment to CR&R in January 2000. It was CR&R's intention, as expressed in several communications to the City, to begin upgrading the commercial recycling programs, recognizing that considerable work would be required to substantially increase the recovery of commercial waste. These efforts were slowed down by CR&R's need to upgrade the Solag yard, make major management changes, and address basic service concerns during the transition. These circumstances created a barrier to the effective implementation of an expanded commercial recycling program.

It is the City's understanding that the management transition is largely completed. CR&R has demonstrated a much more professional and focused approach to recycling.

Lack of Construction/Demolition Infrastructure

The self-haul component of the City's waste stream is 24%. A portion of this tonnage appears to be attributable to the significant construction that occurred within the City during 2000. While this construction activity may taper off in the future, the construction and demolition waste impacted the City's diversion rate in 2000 and could also impact the diversion rate in future years.

Limited recovery of C&D materials is taking place on job sites. However, the fact that there is no permitted C&D facility within 30 miles of the City is impinging on diversion efforts and had a detrimental impact on diversion in 2000. Due to the congestion on the freeways and local streets in South Orange County, a distance of 30 miles can mean up to two hours in traffic to reach a C&D processing facility. Most construction companies cannot afford the time or cost to haul materials to such a distant facility so they use the landfill instead. In recognition of the current and anticipated levels of construction within the City and surrounding unincorporated areas, a new South Orange County facility to recycle C&D materials must be created to meet the mandates of AB 939.

Both the City's current franchise holder (CR&R) and the previous franchise holder (Solag Disposal) reported to the City that after separate extensive searches, there was no industrial zoned land within the City limits of Dana Point suitable for a C&D facility. The adjacent South County communities of San Clemente, San Juan Capistrano, and Laguna Niguel, likewise have no industrial zoned land that is suitable for siting a C&D facility. This lack of appropriately zoned land has been a significant barrier to implementing a C&D diversion program in 2000.

Given the impacts of construction waste on Dana Point's diversion and the lack of private land to accommodate a C&D facility, the City, in concert with the other cities, is working with the County of Orange to establish a C&D and green waste sorting facility. The Prima Desecha Landfill site is the only viable candidate based on the site search noted above. The efforts of the cities is described in Section III-A-2

### Seasonal Variation in Waste Stream

Dana Point is a beach community with one of California's larger marinas. It experiences high levels of tourist traffic during the summer beach and boating season. Local restaurants, retail stores, the marina and hotels hire temporary seasonal labor during the summer. These new employees are not trained in use of the existing recycling programs in the City. An example is the cardboard and glass recycling program at the Jolly Roger restaurant located at the harbor. Temporary summer employees may only receive a brief explanation of the program and in the course of a busy summer day, may route glass bottles, wine bottles, etc. into the trash containers instead of the recycling containers. Additional special training is needed in these high traffic tourist areas when temporary summer employees arrive. In addition, the franchise hauler must add extra collections of recyclable materials during these peak periods. These issues are being addressed in the expanded commercial recycling program that is currently being rolled out.

### SECTION IIIA-2

Why does your jurisdiction need the amount of time requested?

#### A. Timing for Implementation of Expanded Commercial Recycling Program

It will take until December 31, 2003 to add the additional 150+ commercial recycling accounts needed to obtain a 6% increase in the City's diversion rate. An additional 1% is projected to be diverted from compactors at the hotels located in the City. The first group of businesses targeted for implementation is in the Harbor area of the city. Included are a Hyatt hotel, several large restaurants and over 15 retail stores. A field survey conducted by the City's consultant, EcoNomics Inc., in December 31, 2001 identified this as the area of the City that contains the greatest quantity of commercial recyclables. The recyclables targeted in the Harbor area are mixed paper grades, cardboard, glass and CRV containers. Collection routes using front loader refuse vehicles are being constructed with 40 to 60 accounts each. Businesses in the harbor, marina and adjacent retail, shopping and restaurant areas will be provided with 3 cubic yard containers for storage of paper and cardboard. In addition, 64-gallon carts will be provided to bars and restaurants for storage of glass and CRV containers.

Commercial recycling program implementation in the Harbor area is projected to add approximately 75 accounts and will raise the City's diversion level by 3%.

The second set of businesses identified by the EcoNomics field survey for implementation are the hotels at the northern end of the City and the older businesses along Highway 101 (Pacific Coast Highway) in the downtown area. This area has less space for extra recycling bins and carts and access to collect recyclables is via alleys on somewhat narrow streets. Implementation in the downtown area is projected to add additional 75 accounts and recover an additional 3% of the waste stream.

Implementation of these added 150 accounts would also include special training programs for seasonal employees as well as a schedule for extra collection of recyclable materials during the summer months.

The following are the steps required to accomplish implementation of the expanded commercial recycling program and a list of the work items accomplished to date.

#### **Steps To Implement Program**

1. Franchise hauler hires full time recycling coordinator
2. Identify accounts generating the largest to smallest quantities of recyclable materials
3. Establish list of 150 accounts to be implemented (name and address)
4. Contact first 25 accounts
5. Explain program to each account, provide initial training, signage, bins, and construct new collection routes
6. Identify contamination issues
7. Adjust program where needed and retrain as needed
8. Monitor program on quarterly follow-up basis
9. Additional training and extra collections in peak season
10. REPEAT STEPS 4 through 9 FOR THE NEXT 25 ACCOUNTS
11. Continue adding businesses in until all 150 accounts are on-line

The pace of implementation will be approximately 2 to 3 accounts per week. At this rate the full commercial program implementation will take 11 to 16 months. As of July 2002, the following steps have been completed.

#### **Work Items Accomplished To Date**

1. The City's consultant (EcoNomics, Inc.) completed a field survey of the City's commercial accounts in December 31, 2001 and identified the first 50 accounts to be implemented.
2. Wheeled carts and bins are available and ready for painting, signage and placement at accounts as they are implemented.

3. An experienced full-time recycling coordinator has been hired by CR&R and will report to work on September 1, 2002.
4. CR&R has completed its management organization and has hired a new senior vice-president who is directly accountable for the successful implementation of the program.

**B. County-wide Study on Origin and Characterization of C/D and Self-Haul Waste**

Local efforts to site a South Orange County C/D diversion facility have been unsuccessful. With the encouragement of Dana Point and the other "Quad Cities", the County has agreed to undertake the following actions in a regional effort to dissolve this institutional barrier:

1. Conduct a waste characterization/origin study of self-haul county tonnage at all three of the County's landfills. (Other Orange County cities are also experiencing self-haul figures that is above what would be expected.) This characterization will include a detailed assessment of the jurisdictional origin of the self-haul waste.
2. The portion of the data obtained for the Quad cities from the study will be used to estimate costs and to design a permanent green waste and C&D diversion facility at Prima landfill. As noted in the attached schedule, this County C/D and self-haul program will not be operational until January 2004.

The City needs a time extension until the end of 2003 to implement the permanent C/D and green waste diversion program for self-haul and roll off waste. This is a regional effort requiring the cooperation of many cities plus the county. A schedule is attached showing the specific actions that are being taken for this project.

**C. Pilot C/D Diversion Program For Quad Cities**

Given the length of time required for implementation of a permanent self haul C/D and green waste diversion facility for the south Orange County region, the Quad cities worked with CR&R and the County to devise a pilot project that could be implemented more quickly. In May 2002 the City of San Clemente, on behalf of Dana Point and the "Quad Cities", requested that the Orange County Integrated Waste Management Department (IWMD) provide space at the Prima Desecha Landfill for a pilot C/D diversion program for roll-off boxes hauled by the cities' franchised hauler. Pending final approval by the Orange County Board of Supervisors, this project should begin operation by September 2002.

Incoming CR&R roll off trucks carrying loads rich in C/D materials will be weighed at the County-operated landfill scale house and then proceed to the C&D recovery site. C&D from the County unincorporated area will also be processed at the pilot diversion facility. C&D materials will be mechanically and manually sorted into roll off boxes for fiber, metals, concrete, asphalt, drywall, roofing materials, wood and green waste. The materials will be hauled to markets or processors. All residues from the sorting operation will be landfilled at the Prima Desecha Landfill. CR&R will issue a monthly report to the City on the quantity of materials processed and diverted by the pilot C&D operation.

This pilot project will remove a significant barrier that prevented an effective C&D diversion program from being implemented by the City. The effect of a full year of operation of the program should be evident by December 31, 2003. The pilot will also provide local operational data that can be used in design of the larger, permanent C/D and green waste diversion facility. A site layout of the pilot C/D facility is attached.

### SECTION IIIA-3

**Describe your jurisdiction's Good Faith Efforts to implement the programs in its SRRE.**

The City's Annual Report for 2000 describes 33 programs as implemented and functioning during 2000. All major programs, with the exception of the commercial (2030-RC-OSP) and C/D (4060-SP-CAR) programs, are attaining the expected diversion from the SRRE programs.

Specifically, the City has instituted in-house programs including grasscycling (mulch mowing) at City parks, a procurement program, collection of blue prints that are shredded and recycled. The residential curbside and green waste recycling programs continue to be successful. The City instituted variable can rates for residential customers. The City advertises these programs using the quarterly newsletter to residents. A residential buy back/drop off is also available. Commercial on-site pickup is provided for a few of the restaurants in the Harbor area. Special recycling is provided for telephone books and Christmas trees. The City, in conjunction with the other "Quad Cities", sponsored an Earth Day Event and an America Recycles Day event where bagged compost from the Tierra Verde compost facility was given away to residents.

The efforts described above, coupled with the City's implementation of the other SRRE programs, demonstrate the city's "good faith" effort to comply with AB 939. This application, the programs described, and the

implementation schedule demonstrate the City of Dana Point's commitment to working with the new franchise hauler and the County of Orange to overcome obstacles that have constrained the City's diversion efforts in the past.

**Section IIIA-4:**

**Provide any additional relevant information that supports the request.**

**A. Increased Recovery of Recyclable Materials From Existing Programs**

Dana Point's residential recyclables are processed at a CR&R's Materials Recovery Facility which is located 32 miles away in Stanton. CR&R has recently made a substantial investment to upgrade the facility's ability to sort commingled recyclables. Additional diversion from Dana Point's commingled recyclables will be achieved using the newly installed equipment. This increase in diversion will be a result of both the increased efficiency of the sorting line and a reduction in the amount of contaminated residuals. The new equipment was installed in the fall of 2001 and, at the time of this submittal, was being de-bugged by CR&R. CR&R projects that additional diversion will be achieved by use of this system in conjunction with efforts to reduce contamination at the source.

**B. Increased Public Education**

Working with CR&R the City will implement an upgraded recycling education program that is tied directly to supporting the programs identified for increasing diversion in the SB 1066 Plan. Specifically the education program will be tailored to accomplish the following:

1. New public education materials for the curbside and green waste programs will be designed and distributed. These materials will focus on reducing contamination in both the green waste and the single stream curbside materials. Public education materials will be included as inserts in the monthly refuse bills, in the City's quarterly newsletter, and as handouts at the annual Earth Day event. City staff and elected officials will speak at community functions to encourage residents and businesses to renew and intensify their participation in the recycling programs.
2. Once the self-haul C&D and green waste sorting facility is in place, the City will inform the public through brochures, public service announcements, and through flyers distributed at the building department when building permits are issued. In the interim the City will issue flyers informing self-haulers that C&D and green waste diversion opportunities are available in central and north Orange Counties, but these facilities are between 20-40 miles from Prima Desecha Landfill. (Note: The pilot C/D diversion

program targets only franchise-hauled roll off loads and loads from the unincorporated County. Since the City has directed CR&R to take these loads to the pilot sorting facility, there is no need to advertise the facility through a public education program. The pilot facility will not be able to process self haul loads from the public due to space constraints.)

3. A brochure and training materials will be prepared and distributed as an integral part of the expanded commercial recycling program. The materials will be specialized for each type of business enrolled in the commercial program (i.e. restaurants, offices, retail stores, etc.)

#### 4. Policy

- 1 The City will assist CR&R in enforcement of the exclusivity of the franchise on construction roll-off box service. This ordinance will support the franchised hauler in directing roll off boxes to the pilot C&D diversion facility.
- 2 Once the City is assured that the permanent regional C&D facility is operating, it will enact ordinances that require submittal of weight slips from C & D recycling before a Certificate of Occupancy is issued for new and remodeled residential and commercial buildings. .

As these programs are implemented, the City will work with CIWMB staff on a six-month periodic basis to review the level of diversion being accomplished by the expanded commercial program. As part of the process, the City would like to work with CIWMB staff on reviewing the adjustment method formula's ability to accurately measure seasonal variations in waste generation, seasonal employment and the summer tourist population.



### Construction and Demolition Materials Diversion Schedule

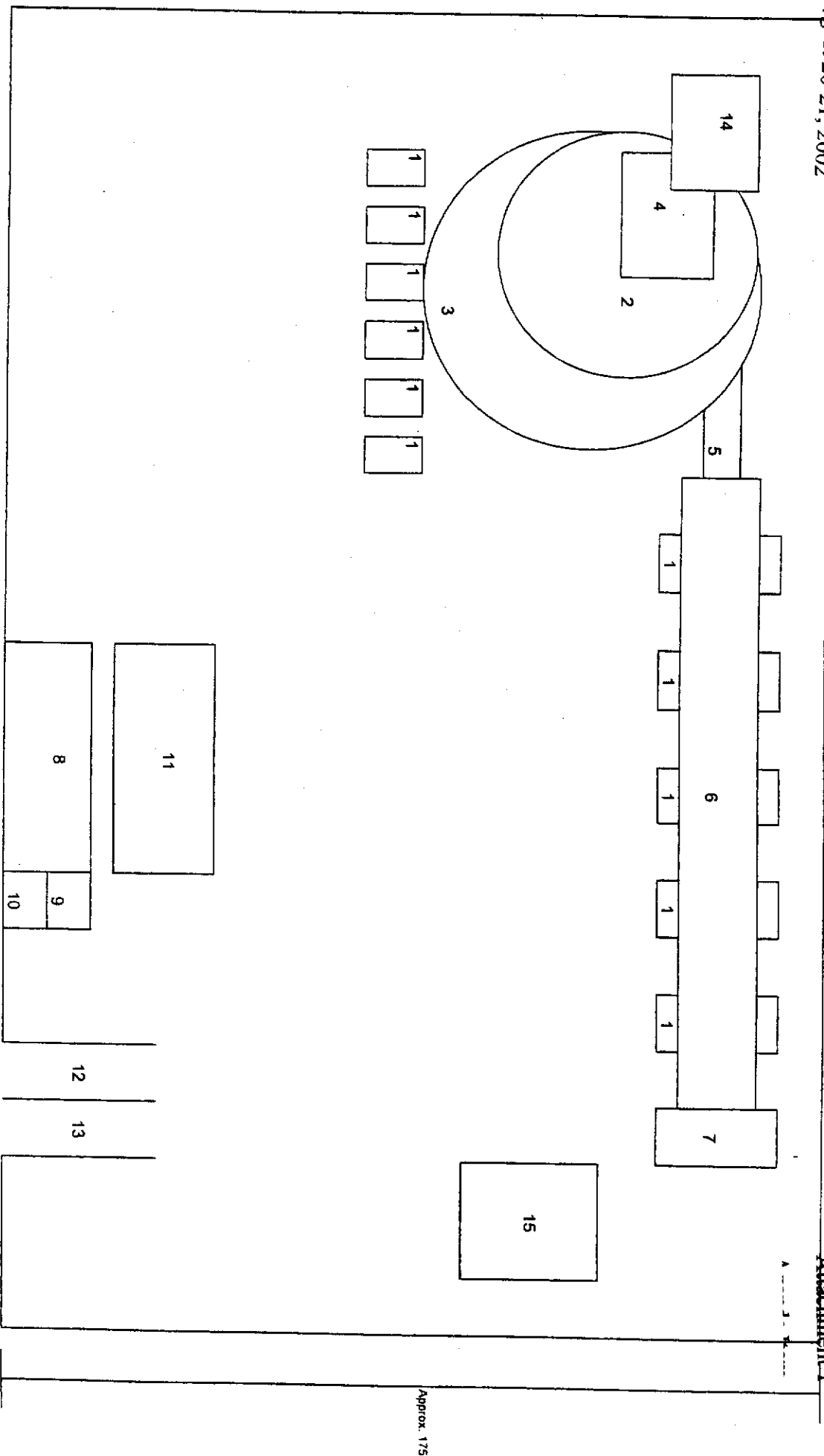
Preparation of a Waste Characterization Scope of Work	February, 2002
Waste Characterization Study Procurement, Contract, Award	June, 2002
Waste Characterization Study	September, 2002
Evaluation	November, 2002
Determination regarding a permanent program	December, 2002
Assuming an affirmative decision to establish a permanent program consult with cities on scope and rates	February, 2003
Permitting (to be determined based upon type and scale of the proposed C&D recycling program)	
Bid process for procuring an operator:	August, 2003
Program Start Up	January 1, 2004
Program Diversion numbers	January, 2005

# South County Cities Proposed Construction and Demolition (C&D) Recycling Facility Schematic

Agenda Item

Board Meeting  
August 20-21, 2002

Attachment 1



1. Recyclable Material Collection Containers
2. Inbound Dumping/Tractor Area
3. Floor Sorting Area
4. Tractor Operating Area
5. Sorting Line In-feed Conveyor

6. Portable Manual Sorting Line
7. Residue Collection Container
8. Portable Office
9. Men's Portable Restroom
10. Woman's Portable Restroom

11. Employee Parking Area
12. Vehicle Exit Lane
13. Vehicle Entrance Lane
14. Inbound Truck Dumping Area
15. Equipment Parking Area

Board Meeting  
August 20-21, 2002

Agenda Item  
Attachment 1

## REQUEST FOR PROPOSAL

Landfill Disposal Characterization Study  
January 30, 2002

### Scope Of Work

#### I. SUBJECT

THE COUNTY OF ORANGE INTEGRATED WASTE MANAGEMENT DEPARTMENT (IWMD) IS SEEKING A QUALIFIED ARCHITECT/ENGINEERING (A/E) FIRM AND/OR TEAM OF CONSULTANTS TO PERFORM A COUNTYWIDE LANDFILL-BASED DISPOSAL CHARACTERIZATION STUDY.

#### II. GENERAL INFORMATION

IWMD is responsible for the administration, management and operation of Orange County's solid waste management system that includes ownership of 3 regional Class III landfills; the Olinda Alpha Landfill located near the City of Brea, the Frank R. Bowerman (FRB) Landfill located near the City of Irvine, and the Prima Deshecha (Prima) Landfill located near the City of San Juan Capistrano. The subject study will be conducted at these landfills.

IWMD is also responsible for the following responsibilities related to integrated solid waste planning:

- To ensure the availability of sufficient long-term regional disposal capacity;
- To ensure that source reduction, recycling and composting technologies are implemented regionally, in accordance with the California Integrated Waste Management Act of 1989
- To ensure that the siting and approval of new or expansion of disposal and non-disposal facilities are conducted in conformance with established state statutes and regulations and county policies; and
- To prepare and maintain a Countywide Integrated Waste Management Plan in accordance with state statutes and regulations.

#### III. INTRODUCTION

The year 2000 was the key milestone in integrated waste management planning in the State of California. Under AB 939, it was the target year for achieving the 50 percent waste diversion goal. The majority (18) of jurisdictions in Orange County did not reach the 50 percent goal despite implementing all Source Reduction and Recycling Element (SRRE) programs. Moreover, many (11) jurisdictions saw their diversion progress erode

in 2000 despite no reductions in programs and, in many instances, the addition of contingency programs. As a result, several Orange County jurisdictions located in the Prima watershed are preparing SB 1066 requests for time extensions (TE) in meeting the 50 percent diversion requirements.

Why so many Orange County jurisdictions did not meet the diversion goal or experienced a decline in diversion rates is not definitively known. Jurisdictions that are host to or in close proximity of the County's three landfills seem to be most affected. Impacted jurisdictions and some waste haulers surmise that an increase in self-hauled waste may be contributing to the problem. Of particular concern is construction and demolition debris that may be hauled directly to the landfills. Market conditions may also play a part. Additionally, the absence of solid waste processing infrastructure within the Prima Landfill watershed may also be a factor in the diversion decline and/or inability to reach 50 percent for some south county cities.

Notwithstanding the aforementioned discussion, with the passing of AB 939's major milestone, the County believes it is an important time for all Orange County jurisdictions and solid waste haulers to reevaluate the programs developed in the SRREs with regard to their effectiveness and to refine existing programs or establish new programs and/or facilities in order for Orange County jurisdictions to meet and sustain the 50 percent goal.

#### IV. PURPOSE AND SCOPE OF SERVICES

The disposal characterization study will determine the composition of self-haul solid wastes entering the three landfills during a specified time period in 2002. Self-haul waste is defined as that waste hauled to the landfill by someone other than a franchise waste hauler or by someone whose primary business is not waste hauling. Also included in the scope of the study is roll off box waste. The information obtained from the study will be useful to Orange County jurisdictions, facility operators and solid waste haulers for purposes of:

- 1) Studying the quantities, types, level of contamination (quality), and jurisdiction of origin of the self-haul solid waste stream disposed of at Orange County landfills in 2002;
- 2) Identifying what material types found in the self-haul waste stream are of such amounts, quality and value that they can be feasibly and cost-effectively diverted, processed, and marketed;
- 3) Measuring the effectiveness of current waste diversion programs and practices;
- 4) Planning future waste diversion programs; and
- 5) Designing future waste management facilities.

Generally, the study will include, but not be limited to, the following elements:

- It will be conducted at each of the three County landfills in staging areas to be determined by IWMD.

- Given that several jurisdictions in the Prima watershed are requesting SB 1066 time extensions, the study should begin at the Prima Landfill.
- All self-haul vehicles and roll-off box waste will be targeted for random waste sampling, with the exception of transfer and route collection trucks.
- The waste will be characterized by hand sorting and weighing representative samples of incoming waste during a specified period in 2002.
- The selected A&E firm will be required to closely consult with landfill staff to refine the Work Plan to minimize disruption to landfill operations and customers.
- A market analysis of the major waste types found in the disposed waste stream to determine the feasibility and cost-effectiveness of diverting these materials.

The proposal should address the following areas as detailed in the CCR, Title 14, Division 7, Chapter 9, Article 6.0, Disposal Characterization Studies, but should also take into consideration the intents and purposes of the disposal characterization study with developing its scope:

- Characterization approach (how data will be collected).
- Collection of representative data and the degree of statistical accuracy needed to conduct this study (how samples are selected, number of samples, period for sampling).
- Characterization protocol (sorting protocols, material type definitions, protocols for lumping/splitting material categories, and protocols for classifying composites/problem items according to diversion program potential).
- Health and Safety standards including establishing training, procedures and safeguards.
- Data analysis methods and extrapolation procedures given the purposes and scope of the study.

## V. DELIVERABLES

Deliverables for each task are intended to be complete draft documents. After review by IWMD staff, the deliverables will be refined and edited by the A&E for inclusion into the Final Report. Tasks include, but are not limited to:

### **Task 1- Introductory Meeting**

This task will be carried out as soon as possible after IWMD issues the Notice To Proceed. The objectives are to meet with city and County staff, private waste haulers, facility operators, and other interested parties to review the overall intent of the study; verify the needs and expectations of the stakeholders; review the methodology, approach, and logistics to be used; and secure the cooperation of the various entities during the course of this study. Modifications to the Scope of Work will be made as needed based upon the results of this meeting.

### **Task 2 - State Statute and Regulatory Review:**

Review regulations and statutes related to conducting a Disposal Characterization Study.

Deliverable: A summary memorandum that describes the state requirements for a disposal characterization study, how the A&E firm will adapt those requirements for the intents and purposes of the study, and the rationale for the methodology. The selected A&E will solicit guidance from the CIWMB regarding the level of detail and accuracy necessary when developing the study methodology.

**Task 3 – Develop Draft Work Plan:**

Based upon the Summary Memorandum and the meeting with stakeholders, the A&E will develop a draft Work Plan for conducting the study that includes, but is not limited to, tasks, responsible parties and schedules for completion.

Deliverable: Prepare the Draft Work Plan for IWMD review.

**Task 4 – Prepare Final Work Plan**

The A&E will prepare a Final Work Plan.

Deliverable: Prepare the Final Work Plan.

**Task 5 – Conduct the Disposal Characterization Study**

The A&E will conduct the study in accordance with the Final Work Plan.

**Task 6 – Conduct a Market Analysis**

The A&E will conduct a market analysis of those major waste types identified in the study. The market analysis will:

- Identify the quantities of major waste types found in the disposed waste stream by jurisdiction of origin, landfill watershed, and by county.
- Analyze the diversion potential of those identified waste types by determining if they are of sufficient quantity and quality to be feasibly and cost-effectively diverted; and if so,
- Quantify how diversion of those wastes would effect jurisdictions' diversion rates; and
- Determine existing processing capacity and costs to divert these waste types.

Deliverable: Prepare a Draft Market Analysis Memorandum.

**Task 7 – Prepare a Final Draft Report**

The A&E will prepare a Final Draft Report, in hard copy and electronic format, that includes, but is not limited to, a discussion and compilation of the all preceding tasks, findings, as well as recommendations for future diversion programs and/or facilities.

Deliverable: Prepare a Draft Final Report

Attachments:

Vehicle type/tonnage/loads for 2001 spreadsheet format

**DANA POINT**

	Phase I	Phase II	TOTAL PROGRAM DIVERSION
<b>COMMERCIAL Frontloader</b>			
Cardboard + Other Fiber	1.50%	1.50%	3.00%
Glass	1.50%	1.50%	3.00%
Other (Organic, Food, etc.)	0.00%	0.00%	0.00%
Subtotal Commercial Frontloader Diversion	3.00%	3.00%	6.00%
<b>COMMERCIAL Compactor</b>			
Fiber	0.00%	1.00%	1.00%
Other (Organic, Food, etc.)	0.00%	0.00%	0.00%
Subtotal Commercial Compactor Diversion	0.00%	1.00%	1.00%
<b>SUBTOTAL ALL COMMERCIAL</b>	<b>3.00%</b>	<b>4.00%</b>	<b>7.00%</b>
<b>CONSTRUCT &amp; DEMO</b>			
Franchise Tonnage	2.00%	3.00%	5.00%
Self-Haul Tonnage	NA	NA	0.00%
<b>SUBTOTAL ALL C&amp;D</b>	<b>2.00%</b>	<b>3.00%</b>	<b>5.00%</b>
<b>MRF</b>			
Residential	1.00%	1.00%	2.00%
Commercial	0.00%	0.00%	0.00%
<b>SUBTOTAL ALL MRF</b>	<b>1.00%</b>	<b>1.00%</b>	<b>2.00%</b>
<b>EDUCATION</b>			
Residential	0.00%	0.00%	0.00%
Commercial	0.00%	0.00%	0.00%
<b>SUBTOTAL ALL EDUCATION</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
<b>TOTAL ALL PROGRAMS</b>	<b>6.00%</b>	<b>8.00%</b>	<b>14.00%</b>

NOTE: Total wastestream is 52,256 tons per year (TPY) 1% = 520 TPY